



# SERENA<sup>®</sup> Dashboard 2.0

Table Reference

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Publication date: January 2012

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# Welcome to Serena Dashboard

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Thank you for choosing Serena® Dashboard as a reporting tool.

Serena Dashboard enables you to produce metrics and reports for all your ALM processes from definition to deployment into production using a variety of sources across distributed environments.

**Audience and Scope** This document is intended for personnel who participate in the processes of managing Application Lifecycle Processes.

**Before You Begin** See the Readme for the latest updates and known issues.

## Contacting Technical Support

Serena provides technical support for all registered users of this product, including limited installation support for the first 30 days. If you need support after that time, contact Serena Support at the following URL and follow the instructions:

<http://www.serena.com/support>

Language-specific technical support is available during local business hours. For all other hours, technical support is provided in English.

## Platform Support

For details of supported server and client platforms, third party integrations, and Serena Integrations, see the Serena Release Plan for Serena Dashboard at:

<http://roadmap.serena.com>

From the Products list, select Serena Dashboard, then click on the 2.0 release. From here you can display supported platforms and integrations.

## Demonstrations

Demonstrations of Serena product features can be viewed at the following public Web site:

<http://courseware.serena.com>



## Chapter 2

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# Dashboard Schema Introduction

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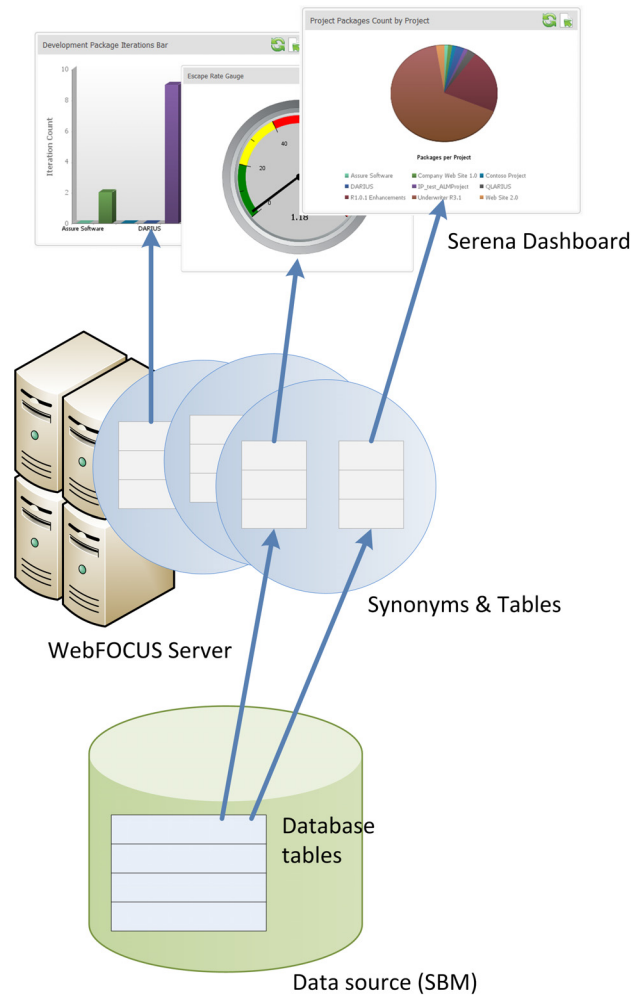
## Overview

Serena Dashboard is built from the ground up to aggregate and report on the most meaningful project and status level data from the Serena Orchestrated ALM solutions, including Serena Release Manager and Serena Development Manager. Serena Dashboard is powered by IBI WebFOCUS, a rich report building and generation system that can consume and display relevant data from any enterprise data source. WebFOCUS uses synonym files to represent imported data in a series of tables.

Serena Dashboard uses these synonyms to import data from the key Serena systems, including Serena Business Manager and Serena Dimensions CM. The data is then available from these synonyms and their tables to the metrics that will make use of the data.

## Understanding Synonyms

Serena Dashboard provides a set of pre-configured master files that are used within WebFOCUS to build and display metrics. These master files store all of the data about the synonyms and tables that represent the actual data from the source. In its simplest form, think of a WebFOCUS synonym as depicted below.





The master files in WebFOCUS define a synonym that maps to the source data and is refreshed with the latest data at run time. When you display a metric in Serena Dashboard, WebFOCUS queries the data source and returns the current data to the synonym, which is then rendered into the metric.

In order to build new metrics in WebFOCUS, you can take advantage of the existing synonyms that are provided out-of-the-box with Serena Dashboard, or consult the IBI WebFOCUS documentation to learn how to build your own. This document describes the tables and columns that are mapped from SBM, Dimensions CM, and other systems into the out-of-box synonym tables; you can use it to find and understand what columns to pull into your own, custom metrics.

## Displaying Serena Dashboard Synonyms

Once you have completed installation of Serena Dashboard as documented in the Serena Dashboard Installation and Configuration Guide, you can open any of the master files provided with Serena Dashboard from WebFOCUS Developer Studio. The master files (.mas) store the synonym and table definitions, mapping data from columns in the data source tables to fields in the synonym tables.

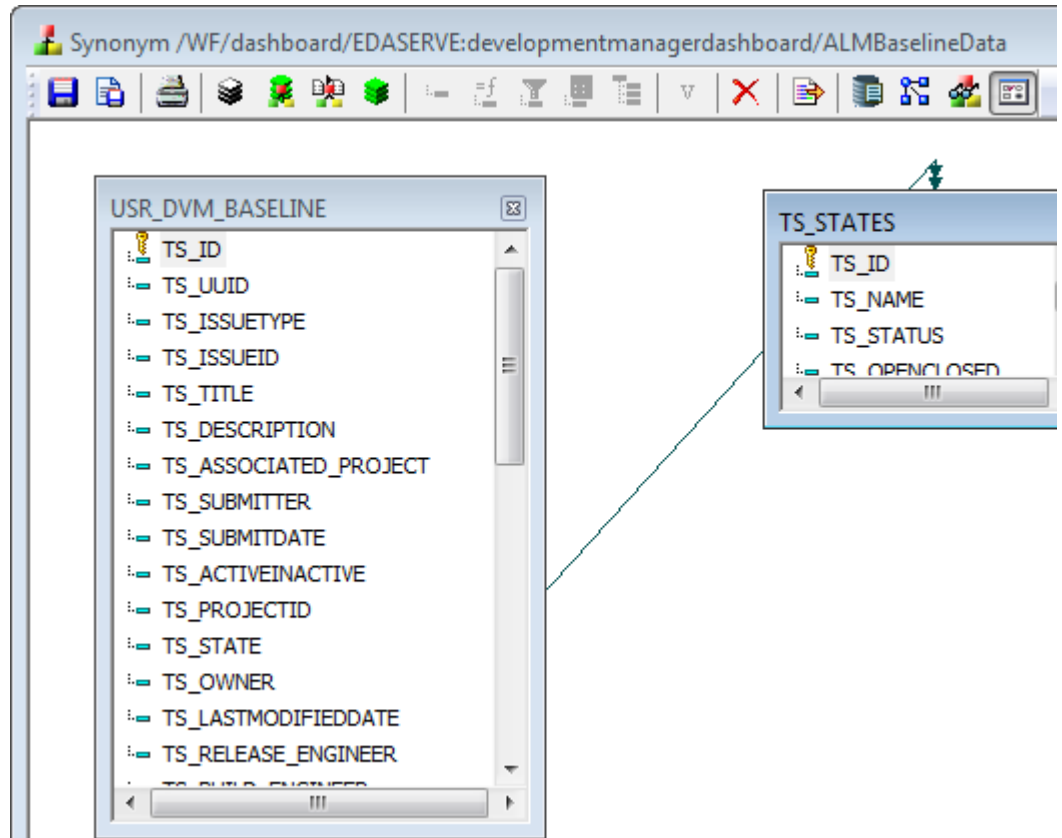
### To display and work with master files:

- 1 Open WebFOCUS Developer Studio.
- 2 In the Explorer view, under WebFOCUS Environments, expand the Dashboard environment (or localhost, however it is defined), expand EDASERVE.
- 3 From here, you can open the \Applications folder and see all of the files for specific WebFOCUS applications. For example, under \developmentmanagerdashboard, you see all of the master files for the Development Manager metrics under the Master Files folder.

Name	Size	Type	Modified
ALMBaselineData.acx	249 bytes	Access File	1/5/2012 11
ALMBaselineData.mas	6.14 KB	Master File	1/10/2012 1
ALMBuildData.acx	3.49 KB	Access File	12/13/2011
ALMBuildData.mas	13.3 KB	Master File	1/10/2012 1
ALMChangeRequestData.acx	846 bytes	Access File	1/13/2012 7
ALMChangeRequestData.mas	28.7 KB	Master File	1/13/2012 7
ALMDvmPkgs.acx	384 bytes	Access File	1/5/2012 11
ALMDvmPkgs.mas	13.3 KB	Master File	1/10/2012 1
ALMProjectData.acx	497 bytes	Access File	12/13/2011
ALMProjectData.mas	18.0 KB	Master File	1/10/2012 1
ALMProjectDataCount.acx	841 bytes	Access File	1/5/2012 11
ALMProjectDataCount.mas	25.5 KB	Master File	1/10/2012 1
ALMTestData.acx	385 bytes	Access File	12/14/2011
ALMTestData.mas	8.45 KB	Master File	12/14/2011

- 4 Each of the .mas / .acx file-pairs in this folder corresponds to a synonym, and stores the table definitions for that synonym. Double-click any of the .mas files to view the tables included in the synonym. For example, double-click ALMBaselineData to display the contents of the ALMBaselineData synonym.

- From the open synonym file, click the Modeling tab to see the representations of tables.



- This synonym includes two tables that map to data from the Development Packages process app in Serena Development Manager.

In this way, you can see for yourself the synonyms included with Serena Dashboard and review the data that each synonym can provide. This document provides a thorough overview of this data, however it does not list every column in every table; you may find that by exploring the synonyms directly you can find everything you need to build new metrics.

## Using This Guide

This guide provides you with an overview of the data provided to you via the tables defined in the out-of-box Serena Dashboard synonyms. You can read through the table and field descriptions to determine which data you need, and then open the synonyms directly in WebFOCUS Developer Studio to start working directly with the synonyms (see ["Displaying Serena Dashboard Synonyms" on page 9](#)). This document provides shortcuts; you can scan tables and column names to find the data you need, then go to work building and customizing metrics in WebFOCUS Developer Studio.

## Chapter 3

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# Introduction

## Data Sources for Development Manager Metrics

Data for metrics on Serena Development Manager may come from multiple sources, including:

- Serena Business Manager
- Serena Dimensions CM
- HP Quality Center

## Representing Data with Synonyms

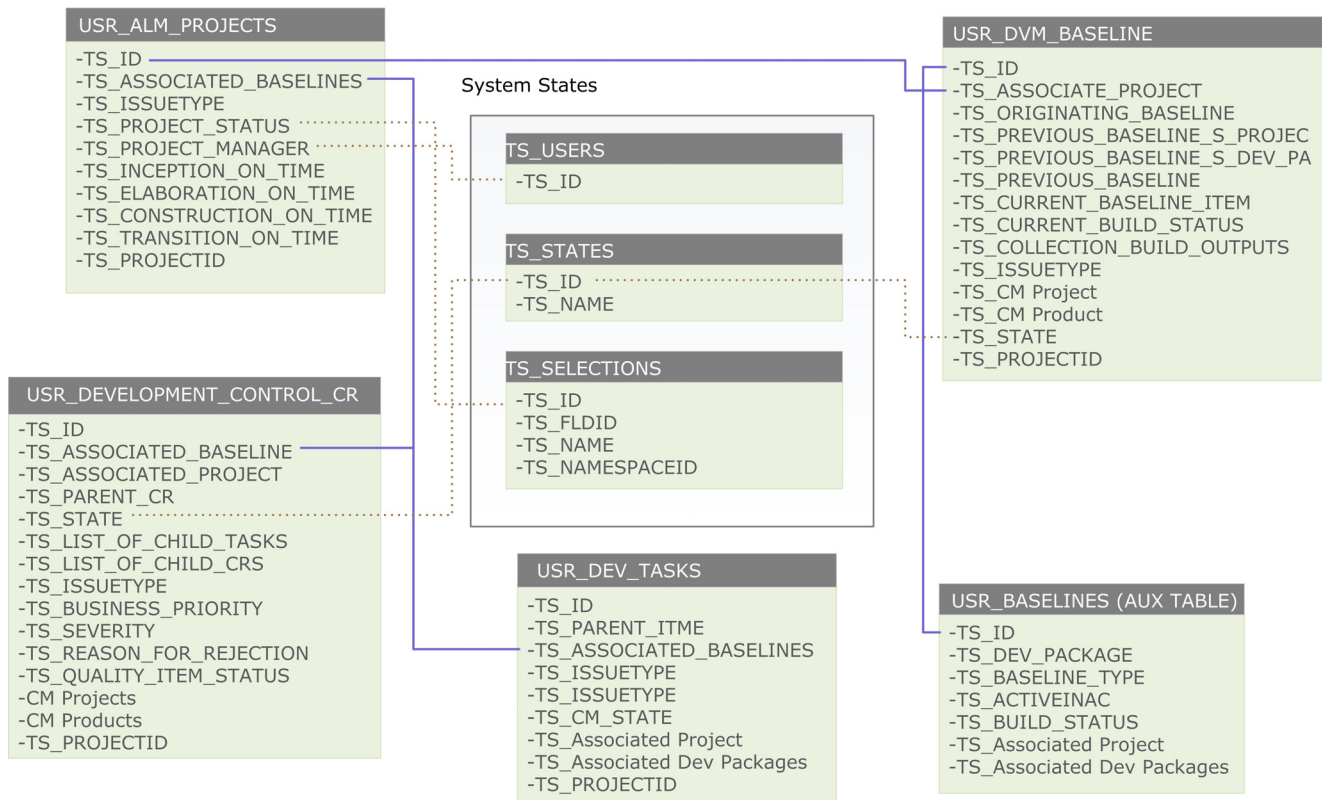
This data is aggregated into tables within several synonyms in WebFOCUS Developer Studio that the metrics can draw from as needed. These synonyms are collections of tables that represent data as it is stored in the database tables in Business Manager, Dimensions CM, and other data sources. All of the out-of-the-box metrics included with Serena Dashboard draw data from these synonyms. By using these synonyms, you do not need to interact directly with the databases for the data sources; the synonyms do the work of mapping metrics to the source data without requiring advanced knowledge of the source database schemas. For more on this, please see ["Understanding Synonyms" on page 8](#).

## Using This Chapter

To build your own metrics on Development Manager data, you can use the tables in these synonyms as well. The information in this chapter is organized logically according to object type. For example, if you want to build a new metric that will report on change requests, refer to ["Change Requests" on page 17](#) for details on the tables and fields that are available to you from the WebFOCUS synonyms.

## Table Overview

The following diagram illustrates the \ set of tables related to Development Manager that are available to you via the out-of-box Serena Dashboard synonyms.



By opening and displaying the WebFOCUS synonyms directly, you can review all of the many fields available to you as you build new metrics using the out-of-the-box Serena Dashboard synonyms. For more on working directly with Serena Dashboard synonyms, see "[Displaying Serena Dashboard Synonyms](#)" on page 9.

## Builds

Data on build configurations from Dimensions CM are stored in the tables that belong to the ALMBuildData synonym. The ALMBuildData synonym stores data imported from Dimensions CM on build jobs, their status, development areas, and more.

### Out of the Box Usage

In Serena Dashboard, the out of box metrics Build Details and Build Success Rate both pull in data from the ALMBuildData Synonym, in order to display information about build jobs that are managed in Dimensions CM and graphically indicate the overall rate of success of builds.

## Build Objects Table Reference

The ALMBuildData synonym contains the following tables. You can use the columns in the synonym tables to build your own metrics on build data.

### **BLD\_BUILD\_JOB**

**Description** Data on Dimensions CM build jobs. You can learn more about Dimensions CM published views in the *Serena Dimensions CM Reports Guide*.

**Source** Dimensions CM schema.

- Columns**
- BUILD\_JOB\_ID  
Primary key. Stores the ID of the Dimensions CM build job.
  - BUILD\_ENV\_ID  
ID of the associated Dimensions CM build environment.
  - BUILD\_AREA\_ID  
ID of the associated Dimensions CM build area.
  - BUILD\_JOB\_START\_TIME  
The start time for the build job.
  - BUILD\_JOB\_STOP\_TIME  
The stop time for the build job.
  - BUILD\_JOB\_USER  
The user who created the build job.
  - BUILD\_JOB\_RESULT  
The result of the build job.
  - BUILD\_CONFIG\_VERSION\_ID  
The ID of the version of the build configuration for the job.
  - CLEAN\_BUILD  
Whether the build job should clean the target directory before running.
  - SRC\_BLINE\_ID  
The ID of the source baseline that the build job compiles.

### **BLD\_BUILD\_ENV**

**Description** Data on Dimensions CM build environments.

**Source** Dimensions CM schema.

- Columns**
- BUILD\_ENV\_ID  
Primary key. ID of the build environment.
  - BUILD\_CONFIG\_ID  
ID of the build configuration for the environment.

- BUILD\_AREA\_ID  
ID of the build area.
- BUILD\_ENV\_ASKPASSRUNTIME  
Whether a password is required at runtime in order to run a build.

### ***BLD\_BUILD\_CONFIG***

Description	Data on Dimensions CM build configurations.
Source	Dimensions CM schema.
Columns	<ul style="list-style-type: none"> <li>■ BUILD_CONFIG_ID ID of the Dimensions CM build configuration.</li> <li>■ PROJECT_ID ID of the Dimensions CM build project.</li> <li>■ PLATFORM_ID ID of the Dimensions CM build platform.</li> <li>■ BUILD_CONFIG_CURRENT_ID ID of the current build configuration.</li> </ul>

### ***BLD\_BUILD\_CONFIG\_VERSION***

Description	Data on versions of Dimensions CM build configurations.
Source	Dimensions CM schema.
Columns	<ul style="list-style-type: none"> <li>■ BUILD_CONFIG_VERSION_ID ID of the Dimensions CM build configuration version.</li> <li>■ BUILD_CONFIG_ID ID of the Dimensions CM configuration.</li> <li>■ BUILD_CONFIG_VERSION_NUMBER Dimensions CM build configuration version number.</li> <li>■ BUILD_CONFIG_VERSION_DATE Date that the build configuration version was created.</li> </ul>

### ***BLN\_CATALOGUE***

Description	Data on Dimensions CM baselines.
Source	Dimensions CM schema.
Columns	<ul style="list-style-type: none"> <li>■ OBJ_UID Baseline ID.</li> <li>■ OBJ_SPEC_UID Baseline specification ID.</li> </ul>

- TYPE\_UID  
The type of baseline.

### **BLN\_SPEC\_CATALOGUE**

Description

Source Dimensions CM schema.

- OBJ\_SPEC\_UID
- TYPE\_UID
- PRODUCT\_ID  
Product ID.
- OBJ\_ID

### **AREA\_CATALOGUE**

Description Data on Dimensions CM areas.

Source Dimensions CM schema.

- Columns
- AREA\_UID  
Area UID.
  - AREA\_ID  
Name of the area.
  - NETWORKNODE\_UID  
ID of the network node.
  - DIRECTORY  
Directory path to the area.

### **WS\_CATALOGUE**

Description Dimensions CM project / stream specification.

Source Dimensions CM schema.

- Columns
- OBJ\_UID  
Project / steam ID.
  - OBJ\_SPEC\_UID  
Full specification of the project / steam.
  - TYPE\_UID  
The type of project or stream.
  - REVISION



**WS\_SPEC\_CATALOGUE**

Description	
Source	Dimensions CM schema.
Columns	<ul style="list-style-type: none"> <li>■ OBJ_SPEC_UID</li> <li>■ TYPE_UID</li> <li>■ PRODUCT_ID ID of the Dimensions CM product.</li> <li>■ OBJ_ID</li> </ul>

## Change Requests

Data on change request objects are stored in the `USR_DEVELOPMENT_CONTROL_CR` table. This table is used by the `ALMChangeRequestData` synonym, which stores data from Serena Business Manager on change requests and more.

### Out of the Box Usage

- Using the `ALMChangeRequestData` synonym, the Project Defects Found metric maps data from the `USR_DEVELOPMENT_CONTRL_CR` table to data from the `USR_ALM_PROJECTS` table to display a bar graph of all defects in specific projects.
- Using the `ALMChangeRequestData` synonym, the Projects Defects by Month metric maps data from the `USR_DEVELOPMENT_CONTROL_CR` table to data from the `USR_ALM_PROJECTS` table to display an area graph of all defects found in specific projects on a month by month basis.
- Using the `ALMChangeRequestData` synonym, the Defects Escape Rate maps data from the `USR_DEVELOPMENT_CONTROL_CR` table to data from the `USR_ALM_PROJECTS` table to display a table of open and escaped defects for specific projects.

### Table Reference

**USR\_DEVELOPMENT\_CONTROL\_CR**

Description	Stores data on development change requests managed by the Dev Change Requests process app.
Source	SBM schema.
Columns	<ul style="list-style-type: none"> <li>■ TS_ID Change Request ID.</li> <li>■ TS_ASSOCIATED_BASELINE Associated Dimensions CM baseline.</li> <li>■ TS_ASSOCIATED_PROJECT</li> </ul>

- ID of the related project.
- TS\_PARENT\_CR  
If the request is a child request, stores the ID of the parent request.
- TS\_STATE  
Current state of the request.
- TS\_LIST\_OF\_CHILD\_TASKS  
ID of tasks related to the request.
- TS\_LIST\_OF\_CHILD\_CRIS  
ID of any child requests, if the request is a parent request.
- TS\_ASSOCIATED\_DEV\_PACKAGES  
Associated development packages.
- TS\_ISSUETYPE  
Type of request, such as Defect.
- TS\_BUSINESS\_PRIORITY  
Business priority of the request.
- TS\_SEVERITY  
Severity of the request.
- TS\_REASON\_FOR\_REJECTION  
If the request was rejected, the reason provided for the rejection.
- TS\_QUALITY\_ITEM\_STATUS  
Status of associated quality center items.
- CM Projects  
Associated Dimensions CM projects.
- CM Products  
Associated Dimensions CM products.
- TS\_PROJECTID  
ID of the associated ALM project.

## System Data

System data tables provide unique identifiers for a variety of object types. These tables are used by various synonyms to supply the identifiers for these objects to metrics.

## Out of the Box Usage

Using the ALMChangeRequestData synonym, the Project Defects Found, Project Defects by Month, and Defects Escape Rate metrics map IDs from the system tables to various objects.

## Table Reference

### ***TS\_STATES***

Description Data about workflow states.

Source SBM schema.

- Columns
- TS\_ID  
State ID.
  - TS\_NAME  
State name.

### ***TS\_SELECTIONS***

Description Provides IDs for various objects.

Source SBM schema.

- Columns
- TS\_ID  
Object ID.
  - TS\_FLDID
  - TS\_NAME  
Object name.
  - TS\_NAMESPACEID

### ***TS\_USERS***

Description Provides information on users.

Source SBM schema.

- Columns
- TS\_ID  
User IDs.

## Development Packages

Data on development packages is stored in the USR\_DVM\_BASELINE table, which is used by the ALMBaselineData and ALMDvmPkgs synonyms.

Note that the synonym and table names refer to baselines, however this is not to be confused with Dimensions baselines. Baseline here refers to development packages.

## Synonym Usage

- The ALMBaselineData synonym stores data from Serena Business Manager on development packages and their status. The data is pulled from the database schema for Serena Development Manager.
- The ALMDvmPkgs synonym maps package data from the USR\_DVM\_BASELINE table to project data in the USR\_ALM\_PROJECTS table, associating development packages to the projects that contain them.

## Out of the Box Usage

- Using the ALMBaselineData synonym, The Project Baselines metric displays the success / failure rate for development packages in each project.
- Using the ALMDvmPkgs synonym, the Development Package per Project metric displays the total number of packages contained in each project, and at each state in the project.

## Table Reference

You can use the columns in this table to build your own metrics on development package data.

### ***USR\_DVM\_BASELINE***

Description	Stores data on development packages from the Dev Packages process app in Serena Development Manager.
Source	SBM schema.
Columns	<ul style="list-style-type: none"><li>■ TS_ID Development package ID.</li><li>■ TS_ASSOCIATED_PROJECT Associated project from the ALM Projects process app.</li><li>■ TS_ORIGINATING_BASELINE</li><li>■ TS_PREVIOUS_BASELINE_S_PROJEC When creating a new revised baseline, this is the project or stream in Dimensions CM to which the original baseline belongs.</li><li>■ TS_PREVIOUS_BASELINE_S_DEV_PA When creating a new revised baseline, this is the development package to which the previous baseline is associated.</li><li>■ TS_PREVIOUS_BASELINE When creating a revised baseline, the ID of the baseline to be revised.</li><li>■ TS_CURRENT_BASELINE_ITEM</li></ul>

- TS\_CURRENT\_BUILD\_STATUS  
Status of a current build task associated with the package.
- TS\_COLLECTION\_BUILD\_OUTPUTS
- TS\_AUTO\_REVISE\_BASELINE\_W
- TS\_ISSUETYPE
- TS\_CM Product  
Associated Dimensions CM product.
- TS\_CM Project  
Associated Dimensions CM project or stream.
- TS\_STATE  
Current workflow state of the package.
- TS\_PROJECTID

## Projects

Data on development projects is stored in the USR\_ALM\_PROJECTS table, which is used by several synonyms that provide project data to various metrics.

### Out of the Box Usage

- The Project Change Request metric uses the ALMProjectData and ALMChangeRequestData synonyms to map project data from the USR\_ALM\_PROJECTS table to change request data from the USR\_DEVELOPMENT\_CONTROL\_CR table. This metric displays the number of change requests in each stage in every project.
- The ALM Project Status metric uses the ALMProjectData synonym to pull data from the USR\_ALM\_PROJECTS table and display the current state, status, project manager, and last modified date of each project.
- The Development Package Iteration Count metric uses the ALMProjectDataCount synonym to map project data from the USR\_ALM\_PROJECTS table to development package data from the USR\_ALM\_PROJECTS table. This metric displays the number of attempts each package required before it was released. You can display a tabular version of this metric that indicates the project to which each package belongs.
- The Project Defects Found, Project Defects by Month, and Defects Escape Rate use the ALMChangeRequestData to map project data from the USR\_ALM\_PROJECTS table to change requests data from the USR\_DEVELOPMENT\_CONTROL\_CR table. These metrics display defect counts against specific projects.
- The Development Package per Project metric uses the ALMDvmPkgs synonym to map data from the USR\_ALM\_PROJECTS table to data from the USR\_DVM\_BASELINE table. This metric displays the number of development packages in specific projects.

## Table Reference

You can use the columns in this table to build your own metrics on development project data.

### **USR\_ALM\_PROJECTS**

Description	Stores data about projects from the ALM Projects process app.
Source	SBM schema.
Columns	<ul style="list-style-type: none"><li>■ TS_ID Stores the</li><li>■ TS_ASSOCIATED_BASELINES</li><li>■ TS_ISSUETYPE Project type, such as Innovation or Operational.</li><li>■ TS_PROJECT_STATUS Current project status.</li><li>■ TS_PROJECT_MANAGER User who is the project manager.</li><li>■ TS_INCEPTION_ON_TIME Whether the Inception phase is currently on-time.</li><li>■ TS_ELABORATION_ON_TIME Whether the Elaboration phase is currently on-time.</li><li>■ TS_CONSTRUCTION_ON_TIME Whether the Construction phase is currently on-time.</li><li>■ TS_TRANSITION_ON_TIME Whether the Transition phase is currently on-time.</li><li>■ TS_PROJECTID</li></ul>

## Test Data

Data on testing is stored in the ALM\_TEST\_DATA table, which is used by the ALMTestData synonym to provide project data to test metrics.

### **Out of the Box Usage**

The Test Execution Status metric uses the ALM\_TEST\_DATA synonym to pull data from the ALM\_TEST\_DATA table and display status information on tests.

---

## Table Reference

You can use the columns in the following tables to build your own metrics on test data.

### ***TC\_TESTCYCL***

Description Data about test cycles from the test management system.

Source SBM schema.

- Columns
- TC\_TESTCYCLE\_ID  
Test cycle ID.
  - TC\_CYCLE\_ID
  - TC\_TEST\_ID  
Tests included in the test cycle.

### ***CYCLE***

Description

Source SBM schema.

- Columns
- CY\_CYCLE\_ID  
Cycle ID.
  - CY\_CYCLE  
Cycle name.
  - CY\_OPEN\_DATE  
Date the cycle was started.

### ***CYCL\_FOLD***

Description

Source SBM schema.

- Columns
- CF\_ITEM\_ID
  - CF\_ITEM\_NAME
  - CF\_ITEM\_PATH





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# Introduction

## Data Sources for Release Manager Metrics

Data for metrics on Serena Development Manager may come from multiple sources, including:

- Serena Business Manager
- Serena Dimensions CM

## Representing Data with Synonyms

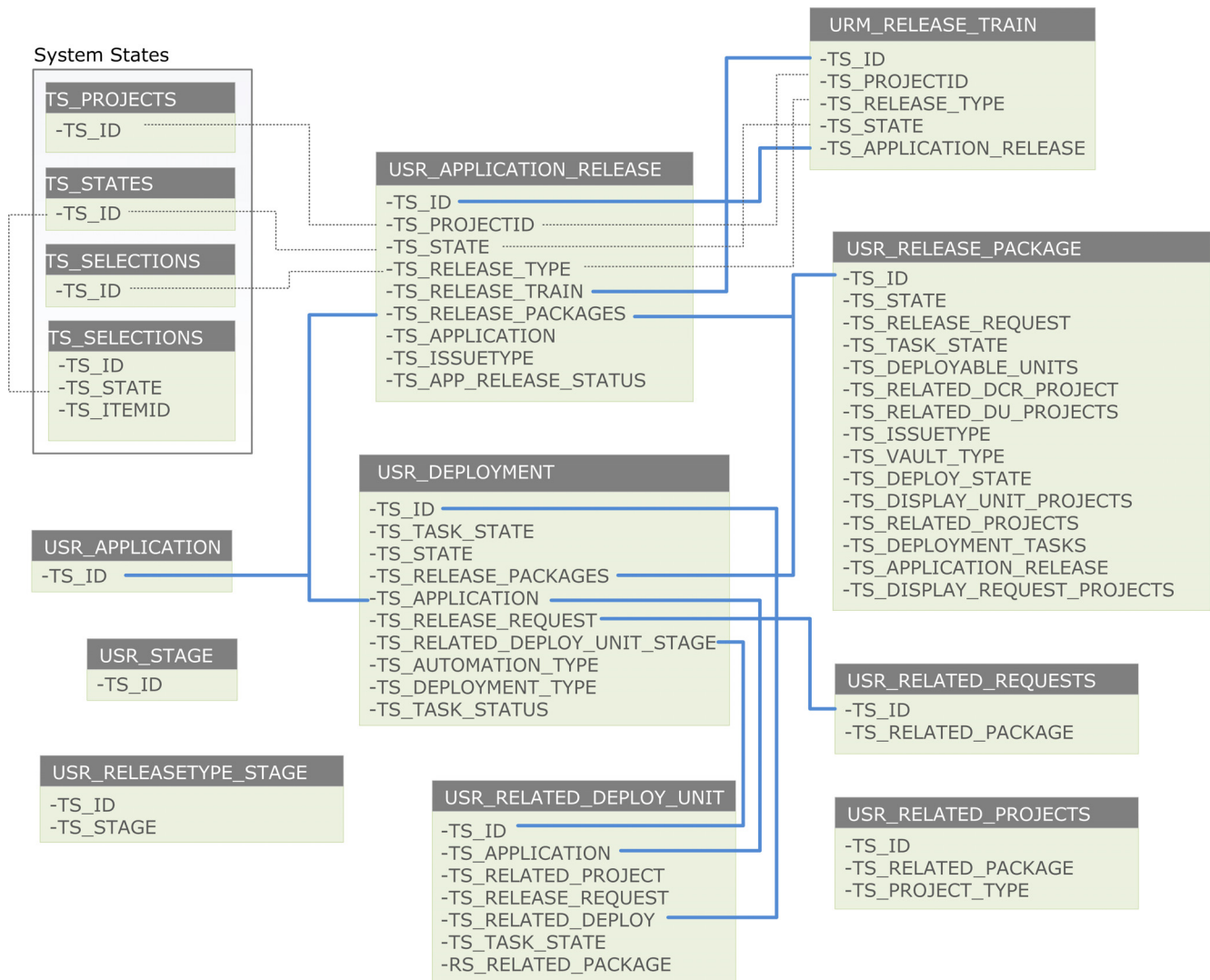
This data is aggregated into tables within several synonyms in WebFOCUS Developer Studio that the metrics can draw from as needed. These synonyms are collections of tables that represent data as it is stored in the database tables in Business Manager, Dimensions CM, and other data sources. All of the out-of-the-box metrics included with Serena Dashboard draw data from these synonyms. By using these synonyms, you do not need to interact directly with the databases for the data sources; the synonyms do the work of mapping metrics to the source data without requiring advanced knowledge of the source database schemas. For more information, see ["Understanding Synonyms" on page 8](#).

## Using This Chapter

To build your own metrics on Release Manager data, you can use the tables in these synonyms as well. The information in this chapter is organized logically according to object type.

## Table Overview

The following diagram illustrates the set of tables related to Release Manager that are available to you via the out-of-box Serena Dashboard synonyms.



By opening and displaying the WebFOCUS synonyms directly, you can review all of the many fields available to you as you build new metrics using the out-of-the-box Serena Dashboard synonyms. For more on working directly with Serena Dashboard synonyms, see ["Displaying Serena Dashboard Synonyms" on page 9](#).

## Release Trains

Data on release trains is stored in the URM\_RELEASE\_TRAIN table, which is used by several synonyms that provide project data to various metrics.

## Out of the Box Usage

- The Compare Release Trains metric uses the RLMReleaseTrainData synonym to map data from the URM\_RELEASE\_TRAIN table to release data from other tables in the Release Manager synonyms. This metric compares the status and stage of multiple release trains.
- The Application Release Rates and Application Release Installation metrics use the RLMApplicationReleaseData synonym to map data from the URM\_RELEASE\_TRAIN table to deployment, request, application, and package data from other tables in the Release Manager synonyms. These metrics display application release rates and current status of installation steps.
- The Deployment Metrics metric uses the RLMDeploymentData synonym to map data from the URM\_RELEASE\_TRAIN table to deployment data. This metric displays the status of deployment activities by application and release train.

## Table Reference

### **URM\_RELEASE\_TRAIN**

Description	The URM_RELEASE_TRAIN table retrieves data from Serena Business Manager on release trains in the system. The data includes the primary ID, the Release Control project to which it is associated, the type of release, and the stage that the release train is currently in.
Source	SBM schema.
Columns	<ul style="list-style-type: none"><li>■ TS_ID Primary key. Release train ID.</li><li>■ TS_PROJECTID Project ID.</li><li>■ TS_RELEASE_TYPE The type of release train. This may be major, minor, or emergency.</li><li>■ TS_STATE The stage that the release train is currently in.</li><li>■ TS_APPLICATION_RELEASE Associated application release.</li></ul>

## Release Packages

Data on release packages is stored in the USR\_RELEASE\_PACKAGE table, which is used by the RLMApplicationReleaseData and RLMDeploymentPackHistory synonyms. Specific information about the package states and transitions are stored in the TS\_CHANGEACTIONS, TS\_TRANSITIONS, TS\_STATES\_PRIORSTATES, and TS\_STATES\_NEWSTATES tables.

## Example Out of the Box Usage

- The Application Release Rates and Application Release Installation metrics use the RLMAApplicationReleaseData synonym to map data from the USR\_RELEASE\_PACKAGE table to release train, request and application data from other tables in the Release Manager synonyms. These metrics display application release rates and current status of installation steps.
- The Break/fix metric uses the RLMDeploymentPackHistory synonym to pull data about packages, including the break / fix information for each stage in a package.

## Table Reference

The synonym contains the following tables. You can use the columns in the synonym tables to build your own metrics on build data.

### **USR\_RELEASE\_PACKAGE**

Description	The USR_RELEASE_PACKAGE table retrieves data on release packages stored in SBM. This data includes change requests and deployment units associated with the package, type, and other relationships.
Source	SBM schema.
Columns	<ul style="list-style-type: none"> <li>■ TS_ID Package ID.</li> <li>■ TS_STATE Release state that the package is currently in.</li> <li>■ TS_RELEASE_REQUEST ID of the associated release request.</li> <li>■ TS_DEPLOYABLE_UNITS Associated deployment units.</li> <li>■ TS_RELATED_DCR_PROJECT Project from which deployment change requests are retrieved.</li> <li>■ TS_RELATED_DU_PROJECTS Project from which deployment units are retrieved.</li> <li>■ TS_ISSUETYPE The type of release package, such as Dependent or Independent.</li> <li>■ TS_VAULT_TYPE The type of release vault.</li> <li>■ TS_DEPLOY_STATE</li> <li>■ TS_DISPLAY_UNIT_PROJECTS</li> <li>■ TS_RELATED_PROJECTS IDs of related projects from providers.</li> </ul>

- TS\_DEPLOYMENT\_TASKS  
Associated deployment tasks.
- TS\_APPLICATION\_RELEASE  
Associated application release.
- TS\_DISPLAY\_REQUEST\_PROJECTS
- TS\_MESSAGE\_LOG

## System Data

System data tables provide unique identifiers for a variety of object types. These tables are used by various synonyms to supply the identifiers for these objects to metrics.

### Table Reference

You can use the columns in the following tables to supply IDs to various objects in your own metrics.

#### ***TS\_PROJECTS***

Description	Provides IDs for projects from providers. The USR_APPLICATION_RELEASE and URM_RELEASE_TRAIN tables refer to it.
Source	SBM schema.
Columns	<ul style="list-style-type: none"><li>■ TS_ID Project ID.</li></ul>

#### ***TS\_SELECTIONS***

Description	Provides IDs for various objects. In the RLM tables, TS_SELECTIONS provides IDs for release types to the USR_APPLICATION_RELEASE and URM_RELEASE_TRAIN tables.
Source	SBM schema.
Columns	<ul style="list-style-type: none"><li>■ TS_ID Object ID.</li></ul>

#### ***TS\_STATES***

Description	Provides IDs for workflow states. In the RLM tables, TS_STATES provides IDs for states to the USR_APPLICATION_RELEASE and URM_RELEASE_TRAIN tables.
Source	SBM schema.
Columns	<ul style="list-style-type: none"><li>■ TS_ID State ID.</li><li>■ TS_NAME</li></ul>

State name.

- TS\_STATUS
- TS\_OPENCLOSED

### ***TS\_CHANGEACTIONS***

Description

Source SBM schema.

- Columns
- TS\_ID  
Primary key. Change action ID.
  - TS\_ACTION  
The action.
  - TS\_ITEMID
  - TS\_TABLEID
  - TS\_TIME
  - TS\_USERID

## Deployment Tasks

Data on deployment tasks - including associated packages, tasks, requests, and applications - is stored in the `USR_DEPLOYMENT` table, which is used by the `RLMDeploymentData` and `RLMApplicationReleaseData` synonyms.

### Out of the Box Usage

- The Deployment Metrics metric uses the `RLMDeploymentData` synonym to map data from the `USR_DEPLOYMENT` table to release train data. This metric displays the status of deployment activities by application and release train.
- The Application Release Rates and Application Release Installation metrics use the `RLMApplicationReleaseData` synonym to map data from the `USR_DEPLOYMENT` table to release train, request, application, and package data from other tables in the Release Manager synonyms. These metrics display application release rates and current status of installation steps.

### Table Reference

You can use the columns in this table to build your own metrics on deployment data.

#### ***USR\_DEPLOYMENT***

Description Provides data about deployment activities as a whole; each record in this table includes information on associated release packages, requests, deployment units, stage in the

deployment lifecycle, the type of deployment activity, the state of the associated deployment task, etc.

Source	SBM schema.
Columns	<ul style="list-style-type: none"><li>■ TS_ID Primary key. Deployment ID.</li><li>■ TS_TASK_STATE Current state of the deployment task.</li><li>■ TS_STATE</li><li>■ TS_RELEASE_PACKAGES IDs of associated release packages, from the USR_RELEASE_PACKAGE table.</li><li>■ TS_APPLICATION Associated application, from the USR_RELATED_DEPLOY_UNIT table.</li><li>■ TS_RELEASE_REQUEST Associated request for a release, from the USR_RELATED_REQUESTS table.</li><li>■ TS_RELATED_DEPLOY_UNIT Associated deployment unit from the USR_RELATED_DEPLOY_UNIT table.</li><li>■ STAGE Current release stage, from the USR_RELEASETYPE_STAGE table.</li><li>■ TS_AUTOMATION_TYPE Automation type.</li><li>■ TS_DEPLOYMENT_TYPE Type of deployment task: manual, approval, vault, or automation.</li><li>■ TS_TASK_STATES States in the deployment task.</li><li>■ TS_RELEASE_ENGINEER Primary owner of the deployment process.</li><li>■ TS_TEMPLATE The deployment process template.</li><li>■ TS_VAULT_TYPE Type of release vault, such as CM or ZMF.</li></ul>

## Releases

Data on application releases is stored in the USR\_APPLICATION\_RELEASE table, which is used by several synonyms that provide project data to various metrics.



## Out of the Box Usage

- The Projects List metric uses the RLMApplicationData synonym to map application data from the USR\_APPLICATION table to release data from the USR\_APPLICATION\_RELEASE table. This metric displays a list of applications as a project list.
- The Application Release Rates and Application Release Installation metrics use the RLMApplicationReleaseData synonym to map data from the USR\_APPLICATION\_RELEASE table to release train, deployment, request, application, and package data from other tables in the Release Manager synonyms. These metrics display application release rates and current status of installation steps.
- The Deployment Metrics metric uses the RLMDeploymentData synonym to map data from the USR\_APPLICATION\_RELEASE table to release train and deployment data from other tables in the Release Manager synonyms. This metric displays the status of deployment activities by application and release train.
- The Compare Release Trains metric uses the RLMReleaseTrainData synonym to map data from the USR\_APPLICATION\_RELEASE table to release train and application data from other tables in the Release Manager synonyms. This metric compares the status and stage of multiple release trains.

## Table Reference

You can use the columns in this table to build your own metrics on development project data.

### ***USR\_APPLICATION\_RELEASE***

Description	Provides data about application releases.
Source	SBM schema.
Columns	<ul style="list-style-type: none"> <li>■ TS_ID Primary key. ID of the release.</li> <li>■ TS_UUID</li> <li>■ TS_ISSUETYPE Type of associated request.</li> <li>■ TS_ISSUEID ID of associated request.</li> <li>■ TS_TITLE Application release name.</li> <li>■ TS_APPLICATION ID of the application.</li> <li>■ TS_RELEASE_TRAIN ID of the release train.</li> <li>■ TS_DESCRIPTION</li> </ul>

- Description of the application release.
- TS\_PROJECTID

## Applications

Data on applications is stored in the USR\_APPLICATION table, which is used by several synonyms that provide application data to various metrics.

### Out of the Box Usage

- The Projects List metric uses the RLMApplicationData synonym to map application data from the USR\_APPLICATION table to release data from the USR\_APPLICATION\_RELEASE table. This metric displays a list of applications as a project list.
- The Application Release Rates and Application Release Installation metrics use the RLMApplicationReleaseData synonym to map data from the USR\_APPLICATION table to release, release train, deployment, request, and package data from other tables in the Release Manager synonyms. These metrics display application release rates and current status of installation steps.
- The Deployment Metrics metric uses the RLMDeploymentData synonym to map data from the USR\_APPLICATION table to release train and deployment data from other tables in the Release Manager synonyms. This metric displays the status of deployment activities by application and release train.
- The Compare Release Trains metric uses the RLMReleaseTrainData synonym to map data from the USR\_APPLICATION table to release train and release data from other tables in the Release Manager synonyms. This metric compares the status and stage of multiple release trains.

### Table Reference

You can use the columns in this table to build your own metrics on development project data.

#### **USR\_APPLICATION**

Description	Stores data about application definitions, which is in turns associated with releases.
Source	SBM schema.
Columns	<ul style="list-style-type: none"><li>■ TS_ID Primary key. Application ID.</li><li>■ TS_UUID</li><li>■ TS_TITLE Name of the application.</li><li>■ TS_DESCRIPTION</li></ul>

- Application description.
- TS\_LASTMODIFIEDDATE  
Date when the application was last modified.
- TS\_DEPLOYMENT\_PROCESS
- TS\_LASTMODIFIER  
ID of the user that last modified the application.

## Deployment Units

Data on deployment units is stored in the USR\_RELATED\_DEPLOY\_UNIT table, which is used by the RLMAApplicationReleaseData synonym.

### Out of the Box Usage

- The Application Release Rates and Application Release Installation metrics use the RLMAApplicationReleaseData synonym to map data from the USR\_RELATED\_DEPLOY\_UNIT table to release, deployment, request, and package data from other tables in the Release Manager synonyms. These metrics display application release rates and current status of installation steps.

### Table Reference

#### ***USR\_RELATED\_DEPLOY\_UNIT***

Description	Provides data on deployment units stored in SBM.
Source	SBM schema.
Columns	<ul style="list-style-type: none"> <li>■ TS_ID Primary key. Deploy unit ID.</li> <li>■ TS_APPLICATION Release application.</li> <li>■ TS_RELATED_PROJECT Project from the provider.</li> <li>■ TS_RELATED_REQUEST</li> <li>■ TS_RELATED_DEPLOY Related deployment task.</li> <li>■ TS_TASK_STATE State of the related task.</li> <li>■ RS_RELATED_PACKAGE Related deployment task.</li> </ul>

## Related Projects and Requests

Data on related projects and requests is provided by several tables. Request and project information originates with the registered change request and deployment provider.

### Out of the Box Usage

- The Application Release Rates and Application Release Installation metrics use the RLMApplicationReleaseData synonym to map data on releases, release trains, deployment tasks, requests, and packages various Release Manager tables. These metrics display application release rates and current status of installation steps.

### Table Reference

#### ***USR\_RELATED\_REQUESTS***

Description Provides information about related requests from the request provider.

Source SBM schema.

- Columns
- TS\_ID  
Primary key. Request ID.
  - TS\_UUID
  - TS\_TITLE  
Name of the request.
  - TS\_OWNER  
User that owns the request.
  - TS\_PACKAGE\_ID  
ID of the associated package.

#### ***USR\_RELATED\_PROJECTS***

Description Provides information about projects from request and deployment unit providers.

Source SBM schema.

- Columns
- TS\_ID  
Primary key. Request ID.
  - TS\_PROJECT\_TYPE  
SBM or Dimensions CM.
  - TS\_RELATED\_PACKAGE  
Associated package.

# Workflow Stages

Data on workflow stages and transitions is provided by several tables that are used by the RLMDeploymentPackHistory synonym. This includes the TS\_TRANSITIONS, TS\_STATES\_PRIORSTATES, TS\_STATES\_NEWSTATES, and TS\_TIMEINSTATE tables.

## Out of the Box Usage

- The Break/fix metric uses the RLMDeploymentPackHistory synonym to pull data about packages, including the break / fix information for each stage in a package.

## Table Reference

### ***TS\_TIMEINSTATE***

Description	Amount of time spent in a particular state in the workflow.
Source	SBM schema.
Columns	<ul style="list-style-type: none"> <li>■ TS_ID</li> <li>■ TS_ENTERCHGACTIONID ID of the change action that moved the package from the previous state into the current state.</li> <li>■ TS_EXITCHGACTIONID ID of the transition that moved the package into the next state.</li> <li>■ TS_CALENDARID</li> <li>■ TS_ELAPSEDTIME Measurement of elapsed time.</li> </ul>

### ***TS\_STATES\_NEWSTATES***

Description	
Source	SBM schema.
Columns	<ul style="list-style-type: none"> <li>■ TS_ID Primary key. State ID.</li> <li>■ TS_NAME State name.</li> <li>■ TS_STATUS State status.</li> <li>■ TS_OPENCLOSED Whether the state is open or closed.</li> </ul>

### ***TS\_STATES\_PRIORSTATES***

Description

Source SBM schema.

- Columns
- TS\_ID  
Primary key. State ID.
  - TS\_NAME  
State name.
  - TS\_STATUS  
State status.
  - TS\_OPENCLOSED  
Whether the state is open or closed.

### ***TS\_TRANSITIONS***

Description Workflow transitions.

Source SBM schema.

- Columns
- TS\_ID  
Primary key. State ID.
  - TS\_NAME  
State name.
  - TS\_PROJECTID
  - TS\_OLDSTATEID